

PCT REQUEST

Original (for SUBMISSION) - printed on 25.11.2003 09:28:09 AM

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name:	in relation to this international application KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1 (ii)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, BOROCZKY, Lilla
VIII-2-1 (ii)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, YANG, Yibin
VIII-2-1 (ix)	This declaration is made for the purposes of:	all designations

INTERNATIONAL SEARCH REPORT

International Classification No.

PCT/IB 03/055366

10/538629

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N7/30 G06T5/20 H04N7/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N G06T

Received 1 JUN 2004

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ATZORI L ET AL: "A real-time visual postprocessor for MPEG-coded video sequences"</p> <p>SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL,</p> <p>vol. 16, no. 8, May 2001 (2001-05), pages 809-816, XP004249808</p> <p>ISSN: 0923-5965</p> <p>abstract</p> <p>page 809, right-hand column, line 7 - line 11</p> <p>page 810, left-hand column, line 38 - line 42</p> <p>section 2: The proposed postprocessor</p> <p>section 5: Conclusions</p> <p>figure 1</p> <p>---</p> <p>-/--</p>	<p>1-6,</p> <p>17-23, 25</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

2 March 2004

Date of mailing of the international search report

12/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
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Authorized officer

Sampels, M

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/IB 03/05536

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>LEE Y L ET AL: "Loop-filtering and Post-filtering for low Bit-rates Moving Picture Coding" PROCEEDINGS 1999 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP'99. KOBE, JAPAN, OCT. 24 - 28, 1999, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, LOS ALAMITOS, CA, USA, vol. 1 OF 4, 24 October 1999 (1999-10-24), pages 94-98, XP000921740 IEEE, New York, USA ISBN: 0-7803-5468-0 abstract page 94, right-hand column, line 11 - line 21 page 95, left-hand column, line 19 - line 29 page 96, left-hand column, line 3 - line 28 section 3.3: Deringing filter for reducing ringing noise</p>	1-6, 17-23,25
A	<p>SEGALL C A ET AL: "Pre- and post-processing algorithms for compressed video enhancement" CONFERENCE RECORD OF THE 34TH ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS & COMPUTERS, vol. 2, 29 October 2000 (2000-10-29), pages 1369-1373, XP010535224 IEEE, New York, USA the whole document</p>	1-6, 17-23,25
A	<p>YIBIN YANG ET AL: "A new enhancement method for digital video applications" IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, AUG. 2002, IEEE, USA, vol. 48, no. 3, pages 435-443, XP002272081 ISSN: 0098-3063 the whole document</p>	1-6, 17-23,25
A	<p>WO 02 056582 A (KONINKL PHILIPS ELECTRONICS NV) 18 July 2002 (2002-07-18) the whole document</p>	1-6, 17-23,25
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INTERNATIONAL SEARCH REPORT

International Application No.
PCT/IB 03/05536

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DERVIAUX C ET AL: "A postprocessing technique for block effect elimination using a perceptual distortion measure" ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 1997. ICASSP-97., 1997 IEEE INTERNATIONAL CONFERENCE ON MUNICH, GERMANY 21-24 APRIL 1997, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, USA, 21 April 1997 (1997-04-21), pages 3001-3004, XP010225788 ISBN: 0-8186-7919-0 the whole document</p>	<p>1-6, 17-23,25</p>

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 03/05536

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 7-16, 24
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 7-16,24

Present claims 7-16 and 24 refer to "a unified metric for digital video processing (UMDVP)". This term has no well-defined meaning in the relevant art and the description fails to define UMDVP. A document "A Unified Metric for Digital Video Processing" cited in the description as a co-pending application and sought to be incorporated by reference (description: page 1, lines 11-13) could not be clearly identified and hence not easily be retrieved, since neither a filing office nor an application number is given. No such document was published before the international filing date of the current application. Therefore no such document can be regarded as part of the disclosure. As far as said claims are concerned, the application does not disclose the invention in a manner sufficiently clear and complete for it to be carried out by a person skilled in the art.

In the present case, said claims so lack support and the application so lacks disclosure (Article 5 PCT) that a meaningful search over the unclear scope of said claims is impossible.

In order to overcome the above objection, the applicant could at a later stage of the proceedings be requested to provide evidence that the skilled person would be able to define a unified metric for digital video processing from the information contained in the present application as originally filed, by using only his common knowledge and his ordinary skills. It is recalled that textbooks and general technical literature form part of the common general knowledge, but not information which can be obtained only after a comprehensive search. Patent specifications and scientific publications may only be considered to form part of the common general knowledge where an invention is in a field of research so new that the relevant technical knowledge is not yet available from textbooks. If necessary, an additional search could then be performed by the Examination Authority.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the policy of some offices when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB03/05536

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02056582	A	18-07-2002	US 2002131512 A1	19-09-2002
			CN 1416640 T	07-05-2003
			EP 1352515 A1	15-10-2003
			WO 02056582 A1	18-07-2002